

Title (en)
NEEDLELESS INJECTOR

Title (de)
NADELLOSER INJEKTOR

Title (fr)
INJECTEUR SANS AIGUILLE

Publication
EP 3505204 A1 20190703 (EN)

Application
EP 17843594 A 20170822

Priority
• JP 2016162870 A 20160823
• JP 2017029981 W 20170822

Abstract (en)
An injector including main body, a syringe portion, a piston portion, an igniting device, and a pressing member, the pressing member is formed so as to have a part displaceable toward the piston portion while the part being kept from returning to the igniting device side upon receiving the ejection energy from the igniting device, and pressing the piston portion toward the plunger due to displacement of the part. In addition, while the piston portion is pressed by the pressing member, the elastically deformable part is partly or entirely recovered from the elastic deformation from a most compressed state by the pressing force from the pressing member so as to push the output portion toward the plunger. In this way, the injector achieves efficient ejection of the injection objective substance in order to deliver the injection objective substance to an injection target area while the injector is designed to be as compact as possible.

IPC 8 full level
A61M 5/303 (2006.01)

CPC (source: EP US)
A61M 5/2033 (2013.01 - US); **A61M 5/2046** (2013.01 - EP US); **A61M 5/30** (2013.01 - EP US); **A61M 2205/0216** (2013.01 - US)

Citation (search report)
See references of WO 2018038116A1

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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EP 3505204 A1 20190703; CN 109641105 A 20190416; JP 7016804 B2 20220207; JP WO2018038116 A1 20190624;
US 2019184105 A1 20190620; WO 2018038116 A1 20180301

DOCDB simple family (application)
EP 17843594 A 20170822; CN 201780051770 A 20170822; JP 2017029981 W 20170822; JP 2018535707 A 20170822;
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